

Data structures

ConcurrentHashMap:

I used `ConcurrentHashMap` in `EmployeeCache` to find the employee by id, for taking the advantage of $O(1)$ average access time for the `ConcurrentHashMap`.

PriorityBlockingQueue:

I used `ConcurrentHashMap` in `EmployeeCache` to sort cacheable objects by their priorities.

LinkedBlockingQueue:

I used `LinkedBlockingQueue` in `BasicConnectionPool` to save and get connections from the connection pool.